AMENDMENTS TO THE CLAIMS

1. **(Currently Amended)** A box-shaped lithium ion secondary cell comprising a positive electrode and a negative electrode which are spirally wound with inserting a separator therebetween and a non-aqueous electrolytic solution wherein said negative electrode comprises a negative electrode active material containing a carbonaceous material having a spacing d_{002} of 0.3360 nm or less where the spacing d_{002} is a plane distance of (002) planes measured by a X-ray diffraction method, a crystal size Lc in the c-axis direction of at least 70 nm and a R value of from 0.01 to 0.3 where a R value is a ratio of I_{1350} to I_{1580} in which I_{1350} and I_{1580} are Raman intensities around 1350 cm^{-1} and 1580 cm^{-1} in a Raman spectrum measured by exciting a carbonaceous material with an argon laser having a wavelength of 514.5 nm, wherein said non-aqueous electrolytic solution contains 0.5 to 5% by weight of vinylene carbonate or its derivative, and wherein said negative electrode comprises a mixture of a cellulose ether compound and a butadiene copolymer rubber in a weight ratio of 1:1 to 1:15 as a ~~binder.~~ binder in an amount of 2% by weight or less based on the total weight of the negative electrode mixture.

2. (Original) The lithium ion secondary cell according to claim 1, wherein said carbonaceous material is natural graphite.

3. (Previously Presented) The lithium ion secondary cell according to claim 1, wherein said carbonaceous material has a R value of 0.1 to 0.3.

4. (Original) The lithium ion secondary cell according to claim 1, wherein said non-aqueous electrolytic solution contains 1.2 to 4% by weight of vinylene carbonate or its derivative.

5. **(Cancelled)**

6. (Previously Presented) The lithium ion secondary cell according to claim 1, wherein said carbonaceous material has a discharge capacity of at least 350 mAh/g.

7. (Previously Presented) The lithium ion secondary cell according to claim 1, wherein said carbonaceous material has a spacing d_{002} of 0.3356 nm or less.

8. (Previously Presented) A lithium ion secondary cell comprising a positive electrode and a negative electrode which are spirally wound with inserting a separator therebetween and a

non-aqueous electrolytic solution wherein said negative electrode comprises a negative electrode active material containing a carbonaceous material having a spacing d_{002} of 0.3360 nm or less where the spacing d_{002} is a plane distance of (002) planes measured by a X-ray diffraction method, a crystal size Lc in the c-axis direction of at least 70 nm and a R value of from 0.01 to 0.3 where a R value is a ratio of I_{1350} to I_{1580} in which I_{1350} and I_{1580} are Raman intensities around 1350 cm^{-1} and 1580 cm^{-1} in a Raman spectrum measured by exciting a carbonaceous material with an argon laser having a wavelength of 514.5 nm, wherein said non-aqueous electrolytic solution contains 0.5 to 5% by weight of vinylene carbonate or its derivative, and wherein said negative electrode contains a mixture of a cellulose ether compound and a butadiene copolymer rubber in an amount of 5% by weight or less.

9. (**Withdrawn**) A box-shaped lithium ion secondary cell comprising a positive electrode and a negative electrode which are spirally wound with inserting a separator therebetween and pressed in a flat form and a non-aqueous electrolytic solution wherein said negative electrode comprises a negative electrode active material containing a carbonaceous material having a spacing d_{002} of 0.3360 nm or less where the spacing d_{002} is a plane distance of (002) planes measured by a X-ray diffraction method, a crystal size Lc in the c-axis direction of at least 70 nm and a R value of from 0.01 to 0.3 where a R value is a ratio of I_{1350} to I_{1580} in which I_{1350} and I_{1580} are Raman intensities around 1350 cm^{-1} and 1580 cm^{-1} in a Raman spectrum measured by exciting a carbonaceous material with an argon laser having a wavelength of 514.5

nm, and wherein said non-aqueous electrolytic solution contains 0.5 to 5% by weight of vinylene carbonate or its derivative.

10. **(Cancelled)**